

IN THE CLAIMS:

Please amend the claims and add new Claims 20 to 23 as shown below.

Please cancel Claims 5, 11 to 15 and 17 to 19 without prejudice or disclaimer of subject matter. The claims, as currently pending in the application, read as follows:

1. (Currently Amended) A signal processing apparatus operated by a remote controller comprising:

a designation unit arranged to designate reproduction procedure of an image signal recorded on a recording medium;

a management data processing unit arranged to allocate to an operating key of said remote controller, a reproduction function that corresponds to said designated reproduction procedure, [[and]] generate reproduction procedure management information which includes operating key information indicating the operating key to which said reproduction function is allocated, and reproduction procedure information indicating said designated reproduction procedure, and further generate registered image management data for identifying image data designated through said reproduction procedure; and

a recording unit arranged to record on said recording medium the reproduction procedure management information, wherein said recording unit writes onto said recording medium said registered image management data.

2. (Original) A signal processing apparatus according to claim 1, wherein said management data processing unit selects one of a plurality of layout

informations representing predetermined display layouts, and generates said reproduction procedure information using the selected layout information.

3. (Original) A signal processing apparatus according to claim 2, wherein said a plurality of layout informations further include template information representing types of operating keys to be employed and functions of said operating keys; and wherein said management data processing unit further generates said operating key information based on the template information included in said selected layout data.

4. (Original) A signal processing apparatus according to claim 2, wherein said management data processing unit selects said layout data based on the number of pictures of said image signal to be displayed on a same picture that is selected by said designation unit from among the image signals of the plurality of pictures.

5. (Canceled)

6. (Original) A signal processing apparatus according to claim 1, further comprising:

a reproduction unit arranged to reproduce said image signal and said reproduction procedure management information stored on said recording medium; and

a control unit arranged to control the reproduction operation of said reproduction unit based on said reproduction procedure management information that is reproduced by said reproduction unit.

7. (Original) A signal processing apparatus according to claim 6, further comprising:

a reception unit arranged to receive a television broadcast; and

an output unit arranged to output, to a display device, an image signal associated with said television broadcast received by said reception unit and an image signal reproduced by said reproduction unit.

8. (Original) A signal processing apparatus according to claim 7, wherein said reproduction unit includes a memory unit having a plurality of memory planes, and wherein, based on said reproduction procedure designated in accordance with said reproduction procedure management information, said control unit determines the memory plane to which said image signal is to be written.

9. (Original) A signal processing apparatus according to claim 8, wherein said reproduction unit further includes a mixing circuit which mixes image data stored in said plurality of memory planes and outputs the mixed image data to said display device, and wherein, based on said reproduction procedure, said control unit changes the ratio at which said mixing circuit mixes said image data of said memory planes.

10. (Original) A signal processing apparatus according to claim 8, further comprising:

an output unit arranged to output, to said display device, an image signal reproduced in accordance with said reproduction procedure,

wherein said control unit detects a display resolution and the number of display colors designated by said reproduction procedure, and compares the detected display resolution and number of display colors with the display resolution and the number of display colors of said display device to determine to which memory plane said image signal is to be written.

11. to 15. (Canceled)

16. (Currently Amended) A signal processing method performed by a remote controller comprising the steps of:

designating reproduction procedure of an image signal recorded on a recording medium;

allocating to an operating key of said remote controller, a reproduction function that corresponds to said designated reproduction procedure, ~~[[and]]~~ generating reproduction procedure management information which includes operating key information indicating the operating key to which said reproduction function is allocated, and reproduction procedure information indicating said designated reproduction procedure, and further generating registered image management data for identifying image data designated through said reproduction procedure; and

the recording on said recording medium the reproduction procedure management information, wherein said recording step includes writing onto said recording medium said registered image management data.

17. to 19. (Canceled)

20. (New) A signal processing apparatus operated by a remote controller comprising:

a designation unit arranged to designate reproduction procedure of an image signal recorded on a recording medium;

a management data processing unit arranged to allocate to an operating key of said remote controller, a reproduction function that corresponds to said designated reproduction procedure, and generate reproduction procedure management information which includes operating key information indicating the operating key to which said reproduction function is allocated, and reproduction procedure information indicating said designated reproduction procedure; and

a recording unit arranged to record on said recording medium the reproduction procedure management information,

wherein said management data processing unit selects one of a plurality of layout data representing predetermined display layouts, based on the number of pictures of said image signal to be displayed on a same picture that is selected by said designation unit from among the image signals of the plurality of pictures, and generates said reproduction procedure information using the selected layout data.

21. (New) A signal processing apparatus operated by a remote controller comprising:

a designation unit arranged to designate reproduction procedure of an image signal recorded on a recording medium;

a management data processing unit arranged to allocate to an operating key of said remote controller, a reproduction function that corresponds to said designated reproduction procedure, and generate reproduction procedure management information which includes operating key information indicating the operating key to which said reproduction function is allocated, and reproduction procedure information indicating said designated reproduction procedure;

a recording unit arranged to record on said recording medium the reproduction procedure management information;

a reproduction unit arranged to reproduce said image signal and said reproduction procedure management information stored on said recording medium;

a control unit arranged to control the reproduction operation of said reproduction unit based on said reproduction procedure management information that is reproduced by said reproduction unit;

a reception unit arranged to receive a television broadcast; and

an output unit arranged to output, to a display device, an image signal associated with said television broadcast received by said reception unit, an image signal reproduced by said reproduction unit, and an image signal reproduced in accordance with said reproduction procedure,

wherein said reproduction unit includes a memory unit having a plurality of memory planes, and

wherein said control unit determines the memory plane to which said image signal is to be written, based on said reproduction procedure designated in accordance with said reproduction procedure management information, and said control unit detects a display resolution and the number of display colors designated by said reproduction procedure, and compares the detected display resolution and number of display colors with the display resolution and the number of display colors of said display device to determine to which memory plane said image signal is to be written.

22. (New) A signal processing method performed by a remote controller comprising the steps of:

designating reproduction procedure of an image signal recorded on a recording medium;

allocating to an operating key of said remote controller, a reproduction function that corresponds to said designated reproduction procedure, and generating reproduction procedure management information which includes operating key information indicating the operating key to which said reproduction function is allocated, and reproduction procedure information indicating said designated reproduction procedure; and

recording on said recording medium the reproduction procedure management information, wherein said allocating step includes selecting one of a plurality of layout data representing predetermined display layouts, based on the number of pictures of said image signal to be displayed on a same picture that is selected in said designating step from among the image signals of the plurality of pictures, and generating said reproduction procedure information using the selected layout data.

23. (New) A signal processing method performed by a remote controller comprising the steps of:

designating reproduction procedure of an image signal recorded on a recording medium;

allocating to an operating key of said remote controller, a reproduction function that corresponds to said designated reproduction procedure, and generating reproduction procedure management information which includes operating key information indicating the operating key to which said reproduction function is allocated, and reproduction procedure information indicating said designated reproduction procedure;

recording on said recording medium the reproduction procedure management information;

reproducing said image signal and said reproduction procedure management information stored on said recording medium;

controlling the reproduction operation in said reproducing step based on said reproduction procedure management information that is reproduced in said reproducing step;

receiving a television broadcast; and

outputting, to a display device, an image signal associated with said television broadcast received in said reception step, an image signal reproduced in said reproducing step, and an image signal reproduced in accordance with said reproduction procedure,

wherein said reproducing step uses a memory unit having a plurality of memory planes, and



wherein said control step includes determining the memory plane to which said image signal is to be written, based on said reproduction procedure designated in accordance with said reproduction procedure management information, and said control step further includes detecting a display resolution and the number of display colors designated by said reproduction procedure, and comparing the detected display resolution and number of display colors with the display resolution and the number of display colors of said display device to determine to which memory plane said image signal is to be written.